

# **Protective humoral and CD4<sup>+</sup> T cellular immune responses of *Staphylococcus aureus* vaccine MntC in a murine peritonitis model**

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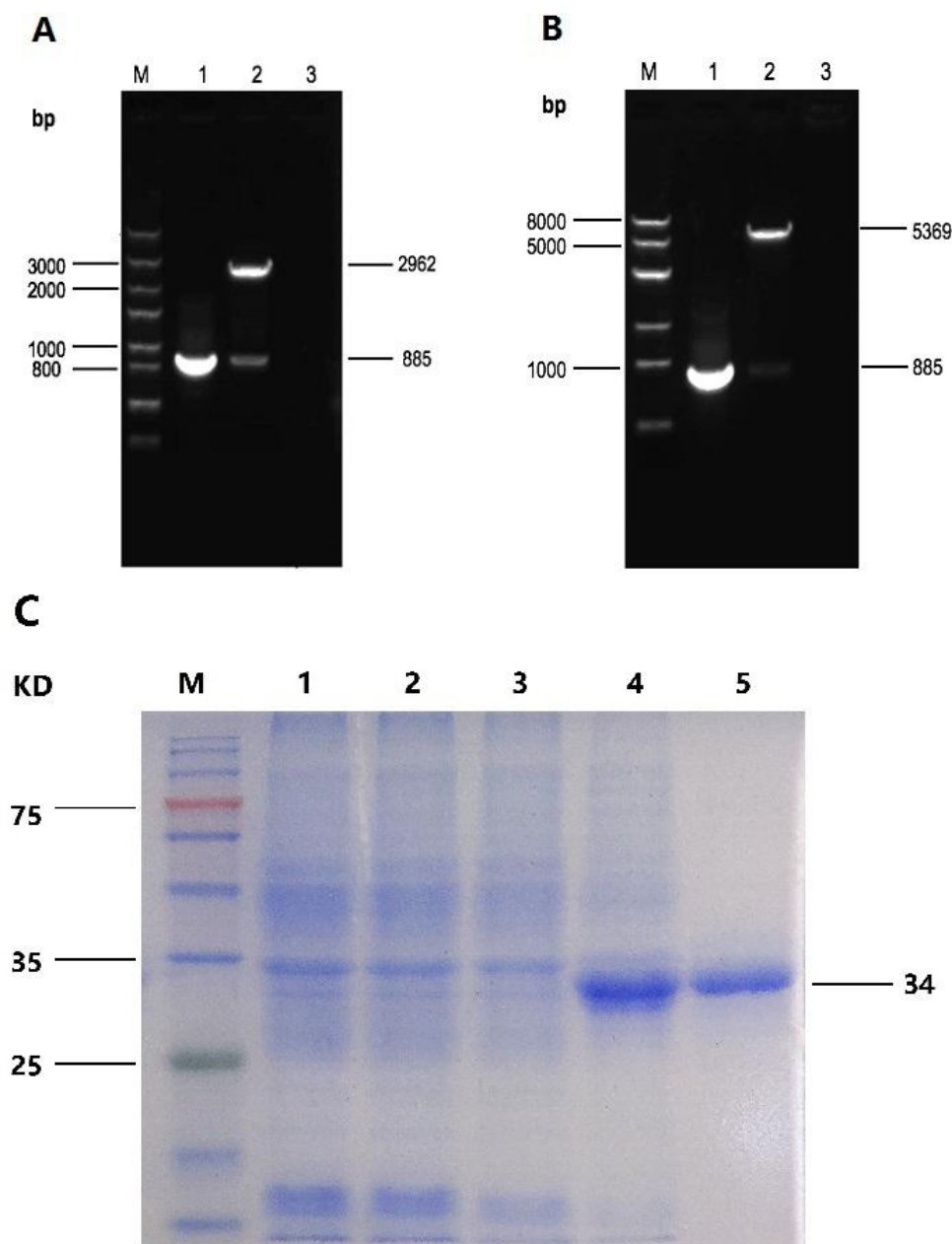
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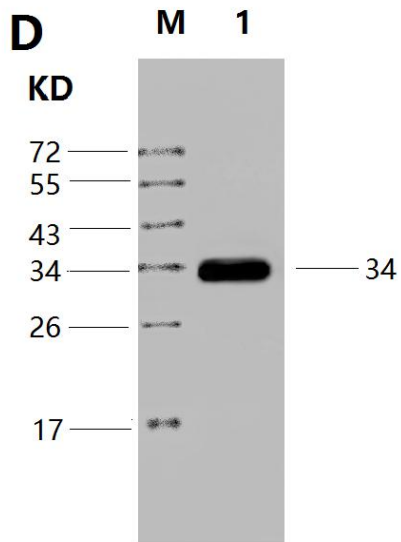
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## **Supplementary Information**

This file contains 2 supplementary figures.

**Supplementary Figure S1. Cloning, expression and purification of recombinant MntC.** (A) Identification of MntC-pMD18T by PCR and double enzyme digestion. Lane M: DNA Marker DL5000; Lane 1: PCR product; Lane 2: pMD18T-MntC; Lane 3: Negative control; (B) Identification of MntC-pET28a by PCR and double enzyme digestion. Lane M: DNA Marker DL8000; Lane 1: PCR product; Lane2: pET28a-MntC; Lane3: Negative control; (C) SDS-PAGE and western-blotting analysis of expressed and purified recombinant protein MntC. Lane M: PAGE Ruler Prestained Protein Ladder; Lane 1: *E. coli* BL21(DE3) with pET-28a before induction; Lane 2: *E. coli* BL21 (DE3) with pET-28a induced by IPTG; Lane 3: *E. coli* BL21 (DE3) with pET-28a/MntC before induction; Lane 4: *E. coli* BL21 (DE3) with pET-28a/MntC induced by IPTG; Lane 5: Purified MntC protein. (D) Western blotting of purified MntC, anti-His antibodies were tested for primary antibody.





**Supplementary Figure S2. Purity of isolated CD4<sup>+</sup> T cells.** Isolated CD4<sup>+</sup> T cells treated with anti-CD4-PE demonstrated by flow cytometry analyses, the purity was greater than 95%.

